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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/708,979	04/05/2004	Longzhi Jiang	GEMS 0219 PA	2978
27256 7590 02/09/2007 ARTZ & ARTZ, P.C.		EXAMINER		
28333 TELEGRAPH RD. SUITE 250 SOUTHFIELD, MI 48034			VARGAS, DIXOMARA	
			ART UNIT	PAPER NUMBER
50011111222	, 1411 1005 1		2859	
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		02/09/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
	10/708,979	JIANG ET AL.				
Office Action Summary	Examiner	Art Unit				
	Dixomara Vargas	2859				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period of the period for reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. mely filed  the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
, —— , —— , —— , —— , —— , —— , —— , —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims		·				
	4) Claim(s) <u>1-20</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
· <u> </u>	5) Claim(s) is/are allowed.					
	6)⊠ Claim(s) <u>1,6,7,10,11,15 and 16</u> is/are rejected.					
	)⊠ Claim(s) <u>2-5,8,9,12-14 and 17-20</u> is/are objected to.					
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers	•					
9) The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on 05 April 2004 is/are: a)	⊠ accepted or b) □ objected to	by the Examiner.				
Applicant may not request that any objection to the		•				
Replacement drawing sheet(s) including the correct	•					
11) The oath or declaration is objected to by the Ex		•				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a	)-(d) or (f)				
a) ☐ All b) ☐ Some * c) ☐ None of:						
, , _ , _						
	application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list		ed.				
·	·					
•	•					
Attachment(s)		•				
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Light Information Disclosure Statement(s) (PTO/SB/08) 5) Light Notice of Informal Patent Application Paper No(s)/Mail Date 6) Dther:						
. apor 110(0)/1111ali Date	6)					

Application/Control Number: 10/708,979

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#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 6-7, 10-11 and 15-16 are rejected under 35 U.S.C. 102(b) as being anticipated by Goldberg et al. (US 5,317,879 A).

With respect to claims 1, 10 and 16, Goldberg discloses a magnetic resonance imaging assembly comprising (Abstract; as seen on Figure 1): a outer thermal shield having an operational temperature (#20 and #21); and a cold head sleeve assembly comprising: a cold head sleeve (#10), a plurality of braid elements (copper ropes #17, #18, #33 and #34 braided) mounted to a cooler block (cooper station #12 in stage 1 of sleeve), said plurality of braid elements connecting said cold head sleeve to said cooler block (as seen on Figure 2 top view); a highly thermally conductive block (interfaces #23, #37, #38) mounted between said cooler block and said outer thermal shield (as seen on Figure 2), said highly thermally conductive block welded to said outer thermal shield and welded to said cooler block (Column 3, lines 21-40), said highly thermally conductive block having greater thermal conductivity than said outer thermal shield (Column 2, lines 56-62).

3. With respect to claims 6 and 11, Goldberg discloses a cooler block comprised of copper (Column 2, line 63).

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With respect to claims 7 and 15, Goldberg discloses said operation temperature is less 4. than 50 degrees Kelvin (Column 2, line 63).

## Allowable Subject Matter

5. Claims 2-5, 8-9, 12-14 and 17-20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

### Response to Arguments

6. Applicant's arguments with respect to claims 1-20 have been considered but are moot in view of the new ground(s) of rejection.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dixomara Vargas whose telephone number is (571) 272-2252. The examiner can normally be reached on Monday to Thursday from 8:00 am. to 4:30 pm..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diego Gutierrez can be reached on (571) 272-2245. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Dixomara Vargas Art Unit 2859

BRIJ SHRIVASTAV PRIMARY EXAMINER